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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

The Application of:

EDGAR B. CAHOON ET AL.

CASE NO.: BB1117 US NA

APPLICATION NO.: ~~09/644,840~~

GROUP ART UNIT: 1638

FILED: SEPTEMBER 19, 2000

EXAMINER: E. MCELWAIN

FOR: LIMNANTHES OIL GENES

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AMENDMENT AND RESPONSE TO RESTRICTION REQUIREMENT

Commissioner of Patents and Trademarks
Washington, D.C. 20231

Sir:

This is an Amendment and Response to the Restriction Requirement as set forth in the Office Action mailed June 18, 2002. A Petition for Extension of Time for one (1) month up to and including August 19, 2002 (Monday) is being filed simultaneously herewith. Please enter the following:

IN THE CLAIMS:

Please cancel Claims 1-34 without prejudice to or disclaimer of the subject matter recited therein.

Please add the following claims 35-52:

35. "new" An isolated polynucleotide comprising:

(a) a nucleotide sequence encoding a polypeptide having delta-5 acyl-CoA desaturase activity, wherein the polypeptide has an amino acid sequence of at least 80% sequence identity, based on the Clustal alignment method, when compared to SEQ ID NO:2, or

(b) the complement of the nucleotide sequence.

36. "new" The polynucleotide of Claim 35, wherein the amino acid sequence of the polypeptide has at least 90% sequence identity, based on the Clustal alignment method, when compared to SEQ ID NO:2.

37. "new" The polynucleotide of Claim 35, wherein the amino acid sequence of the polypeptide has at least 95% sequence identity, based on the Clustal alignment method, when compared to SEQ ID NO:2.

38. "new" The polynucleotide of Claim 35, wherein the amino acid sequence of the polypeptide comprises SEQ ID NO:2.

39. "new" A vector comprising the polynucleotide of Claim 35.

40. "new" A method for transforming a cell comprising transforming a cell with the polynucleotide of Claim 35.